PCT/EP2005/000422

A CLASSI IPC 7	CO7C69/54 CO7C67/08 CO7C67/	726	
	o International Patent Classification (IPC) or to both national classific	cation and IPC	
	SEARCHED ocumentation searched (classification system followed by classification)	lion symbols)	
IPC 7	C07C		-
Documentat	tion searched other than minimum documentation to the extent that	such documents are included in the fields sea	arched
•	ata base consulted during the international search (name of data be		·
EPO-In	ternal, WPI Data, PAJ, BEILSTEIN Da	ıta	•
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.
X	DATABASE HCAPLUS [Online] 9 February 1998 (1998-02-09), AOSHIMA, KATSATARO: "Negative-wo	orking	. 1-9
·	lithographic printing plate with printing durability" XP002324986 retrieved from STN Database accession no. 1998:7615	n improved	
X	abstract; examples 203179-84-4P & PATENT ABSTRACTS OF JAPAN vol. 1998, no. 06, 30 April 1998 (1998-04-30) & JP 10 029292 A (FUJI PHOTO FIL 3 February 1998 (1998-02-03) abstract; figures V-7,VI-11; exa	-	1-9
		-/	
X Furth	ner documents are listed in the continuation of box C.	Patent family members are listed in	n annex.
Special cat	tegories of cited documents :	"T" later document published after the inter	rnational filino date
	ent defining the general state of the art which is not	or priority date and not in conflict with t cited to understand the principle or the	the application but
"E" earlier d	ered to be of particular relevance locument but published on or after the international	invention "X" document of particular relevance; the cl	
filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "V" document of particular relevance: the claimed invention			
citation	n or other special reason (as specified) ant referring to an oral disclosure, use, exhibition or	"Y" document of particular relevance; the cleannot be considered to involve an involve a	entive step when the
other n	neans ont published prior to the international filing date but	ments, such combination being obviou in the art.	us to a person skilled
later th	actual completion of the international search	"&" document member of the same patent for Date of mailing of the international search	
	8 April 2005	1 8. 08. 2005	Cirreport
Name and m	nailing address of the ISA	Authorized officer	· · · · · · · · · · · · · · · · · · ·
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Dury, 0	

Internat Application No
PCT/EP2005/000422

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category *	CHAROLLOL GOCULIERIC WILL BRACABOLL, WHELE Appropriate, 57 the 10/0747/1 passages	Tooler to Class 140.
X	DATABASE REGISTRY [Online] 26 March 1998 (1998-03-26), XP002324987 retrieved from STN RN: 203179-84-4 abstract	1-9
A	US 5 326 826 A (ROESCHERT ET AL) 5 July 1994 (1994-07-05) column 8, lines 11-16,41-47; claim 1	1-13
A	US 5 623 014 A (BAUER ET AL) 22 April 1997 (1997-04-22) cited in the application column 1, lines 60-65; claims 1,5,6	1-13
A	EP 0 003 516 A (BASF AKTIENGESELLSCHAFT) 22 August 1979 (1979-08-22) cited in the application column 1, lines 35-40; claim 1 column 2, lines 10-15 column 6, lines 2-8	1-13
	•	·

International application No. PCT/EP2005/000422

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	ernational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X	Claims Nos.: 1-13 (part) because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: see supplemental sheet PCT/ISA/210
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
	see supplemental sheet
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. X	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-13
Remark	k on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees
1	No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (1)) (July 1992)

International application No. PCT/EP2005/000422

Continuation of II.2

Claims:

1-13 (in part)

- 1. The current claims 1-13 pertain to dispersions or solutions of some polymer containing somewhere in its structure a defined quantity of a 3,4 dihydroxyphenyl group radical. Claim 1-13 thus relate to an inordinately large number of products, only a small proportion of which are supported by the description (PCT Article 6) and/or can be considered as having been disclosed in the application (PCT Article 5).
- 2. Moreover, the application describes only dispersions and does not explain how the claimed solutions can be attained. The claimed solutions are thus unsupported and/or insufficiently disclosed (PCT Articles 5 and 6).
- 3. In the present case the claims lack the proper support and the application lacks the requisite disclosure to such an extent that it appears impossible to carry out a meaningful search covering the entire range of protection sought. Therefore, the search was directed to the parts of the claims that appear to be supported and disclosed in the above sense, that is the parts concerning the following:

dispersions of a copolymer in water, organic solvents or mixtures thereof, characterized in that the copolymer contains at least 0.001 mol 3,4 dihydroxyphenyl groups (calculated at 109 g/mol) for 100g polymer, the copolymer being one produced by radical polymerization of i) ethylenically unsaturated monomers and ii) monomers according to claim 7, in conjunction with claims 6, 5 and 4.

The applicant is advised that claims relating to inventions in respect of which no international search report has been established normally cannot be the subject of an international preliminary examination (PCT Rule 66.1(e)). In its capacity as International Preliminary Examining Authority the EPO generally will not carry out a preliminary examination for subjects that have

not been searched. This also applies to cases where the claims were amended after receipt of the international search report (PCT Article 19) or where the applicant submits new claims in the course of the procedure under PCT Chapter II. After entry into the regional phase before the EPO, however, an additional search can be carried out in the course of the examination (cf. EPO Guidelines, Part C, VI, 8.5) if the deficiencies that led to the declaration under PCT Article 17(2) have been remedied.

International application No. PCT/EP2005/000422

The International Searching Authority has determined that this international application contains multiple (groups of) inventions, namely

1. Claims 1-13

dispersions or solutions of a polymer in water, organic solvents or mixtures thereof, characterized in that the polymer contains at least 0.001 mol 3,4-dihydroxyphenyl groups (at 109 g/mol) for 100g polymer.

2. Claims 14-16

radical polymerizable monomers with 3,4-dihydroxyphenyl groups and at least one radical polymerizable double bond.

Form PCT/ISA/210

Information on patent family members

PCT/EP2005/000422

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5326826	A	05-07-1994	DE	4106357 A1	03-09-1992
			AU	1125492 A	03-09-1992
			BR	9200681 A	10-11-1992
			CA	2061991 A1	29-08-1992
•			DE	59200671 D1	01-12-1994
			EP	0501294 A1	02-09-1992
			JP	3152986 B2	03-04-2001
			JP	5105715 A	27-04-1993
			MX	9200826 A1	01-08-1992
			ZA	9201456 A	25-11-1992
US 5623014	Α	22-04-1997	DE	4219384 A1	23-12-1993
			AU	666556 B2	15-02-1996
		•	AU	4321793 A	04-01-1994
			BR	9306547 A	15-09-1998
			CA	2137932 A1	23-12-1993
			CN	1080936 A ,C	19-01-1994
			DE	59304754 D1	23-01-1997
•			MO	9325588 A1	23-12-1993
			EP	0644902 A1	29-03-1995
			ES	2095057 T3	01-02-1997
			FI	945835 A	26-01-1995
•			JP	7507820 T	31-08-1995
			MX	9303238 A1	31-01-1994
EP 0003516	A	22-08-1979	AT	362586 B	25-05-1981
			ΑT	55779 A	15-10-1980
			CA	1151786 A1	09-08-1983
			DE	2960217 D1	23-04-1981
	•		DK	31779 A ,B,	27-07-1979
			EP ES	0003516 A1	22-08-1979
	•		ES	477135 A1	01-12-1979
			JP	1342177 C	14-10-1986
			JP	54110248 A	29-08-1979
			JP	61006861 B	01-03-1986
			NO	790255 A ,B,	27-07-1979
		•	US	4250070 A	10-02-1981